Systemic immune inflammation index

The systemic-immune-inflammation index, is based on neutrophil (N), platelet (P) and lymphocyte (L) counts, has emerged and reflects comprehensively the balance of host inflammatory and immune status.

Preoperative systemic immune inflammation index (SII) and the albumin/globulin ratio (AGR) have been used as prognostic markers in many malignancies. A study was conducted to evaluate the clinical significance of the preoperative SII and AGR in high grade glioma (HGG) patients.

A total of 169 patients with newly diagnosed HGG were enrolled in the study. Overall survival (OS) of these patients was estimated by Kaplan Meier analysis. Univariate and multivariate Cox regression analyses were performed to examine the relationships between OS and prognostic variables in patients with HGG.

The cut-off values for SII and AGR were $324.38 \times 109/L$ and 1.35, respectively. An inverse correlation was observed between SII and AGR. The Kaplan-Meier survival analyses demonstrated that high SII and low AGR were associated with poor OS of patients with HGG (P = 0.002 and P = 0.012, respectively). Multivariate analyses revealed that both SII (HR 1.641, 95% CI: 1.071-2.515; P = 0.023) and AGR (HR 0.566, 95% CI: 0.335-0.956; P = 0.033) were independent predictive indicators of OS of HGG patients.

Liang et al., demonstrated that high SII and low AGR values may serve as promising prognostic markers to identify HGG patients with poor prognosis ¹⁾.

1)

Liang R, Li J, Tang X, Liu Y. The prognostic role of preoperative systemic immune-inflammation index and albumin/globulin ratio in patients with newly diagnosed high-grade glioma. Clin Neurol Neurosurg. 2019 Jun 24;184:105397. doi: 10.1016/j.clineuro.2019.105397. [Epub ahead of print] PubMed PMID: 31306893.

From: https://neurosurgerywiki.com/wiki/ - Neurosurgery Wiki

Permanent link: https://neurosurgerywiki.com/wiki/doku.php?id=systemic_immune_inflammation_inde



Last update: 2024/06/07 02:56